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## **IGMP SNOOPING Commands**

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## Chapter 1 IGMP SNOOPING Commands

### 1.1 ip igmp snooping

#### [Function]

Use this global command to enable IGMP Snooping, use “**no ip igmp-snooping**” to disable this function.

#### [Command Format]

**[no] ip igmp snooping [schedule-list list-no]**

#### [Parameter]

*schedule-list*: set the starting time, ending time and time interval of periodical task.

*list-no*: periodical list number range from<0-99>.

#### [Default]

IGMP Snooping function disables.

#### [Command Modes]

Global configuration mode; Privileged EXEC.

#### [Executing Command Instruction]

When start IGMP snooping, IGMP snooping function will be enabled on all current VLAN;  
When the function is disabled, IGMP snooping function will be disabled on all current VLAN.

#### [Explanation of command execution echo]

*Enable IGMP snooping successfully*

*Enable IGMP snooping unsuccessfully*

*Disable IGMP snooping successfully*

*Disable IGMP snooping unsuccessfully*

#### [Example]

Start IGMP snooping:

Raisecom(config)# **ip igmp snooping**

Stop IGMP Snooping:

Raisecom(config)#**no ip igmp snooping**

#### [Related commands]

Commands	Description
<b>show ip igmp snooping</b>	Show IGMP Snooping config information.

## 1.2 ip igmp snooping

### [Function]

Use this global command to enable IGMP Snooping, use “**no ip igmp-snooping**” to disable this function.

### [Command Format]

**ip igmp snooping** [schedule-list *list-no*]

**[no] ip igmp snooping** [schedule-list *list-no*]

### [Parameter]

*schedule-list*: set the starting time, ending time and time interval of periodical task.

*list-no*: dispatching list number range from<0-99>.

### [Default]

IGMP Snooping is enabled in all active VLAN.

### [Command Modes]

VLAN configuration mode; Privileged EXEC.

### [Executing Command Instruction]

Use this command to enable IGMP snooping function on VLAN, use **no ip igmp snooping** to stop IGMP snooping function on VLAN.

### [Explanation of command execution echo]

*Enable IGMP snooping on VLAN 1 successfully*

*Enable IGMP snooping on VLAN 1 unsuccessfully*

*Disable IGMP snooping on VLAN 1 successfully*

*Disable IGMP snooping on VLAN 1 unsuccessfully*

### [Example]

Start IGMP snooping of VLAN 1:

Raisecom(config-vlan)# **ip igmp snooping**

Stop IGMP Snooping on VLAN 1:

Raisecom(config-vlan)#**no ip igmp snooping**

### [Related commands]

Commands	Description
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<b>show ip igmp snooping</b>	Show IGMP Snooping config information
<b>show ip igmp snooping vlan</b>	Show IGMP Snooping config information of assigned VLAN

### 1.3 ip igmp snooping immediate-leave

#### [Function]

Use this command to enable IGMP snooping immediate-leave function on assigned VLAN, use **no ip igmp snooping immediated-leave** to stop the IGMP snooping immediate-leave function on designated VLAN.

#### [Command Format]

**ip igmp snooping immediate-leave**

**[no] ip igmp snooping immediate-leave**

#### [Default]

IGMP Snooping immediate-leave function is disabled by default.

#### [Command Modes]

VLAN configuration mode; Privileged EXEC.

#### [Executing Command Instruction]

Use this command to start IGMP snoop immediate-leave function on designated VLAN, use **no ip igmp snooping immediate-leave** to stop IGMP snoop immediate-leave function.

#### [Explanation of command execution echo]

*Enable IGMP immediate-Leave processing on the VLAN 1 successfully*

*Enable IGMP Immediate-Leave processing on the VLAN 1 unsuccessfully*

*Disable IGMP Immediate-Leave processing on the VLAN 1 successfully*

*Disable IGMP Immediate-Leave processing on the VLAN 1 unsuccessfully*

#### [Example]

Start the IGMP snooping immediate-leave on VLAN1:

RAISECOM(config-vlan)# **ip igmp snooping immediate-Leave**

Stop the IGMP snooping immediate-leave on VLAN1:

RAISECOM(config-vlan)#**no ip igmp snooping immediate-Leave**

#### [Related commands]

Commands	Description
<b>show ip igmp snooping</b>	Show IGMP Snooping config information
<b>show ip igmp snooping vlan</b>	Show IGMP Snooping config information of assigned VLAN

## 1.4 ip igmp snooping mrouter

### [Function]

Use this command to set the multicast router port on designated VLAN, use **no ip igmp snooping mrouter** to delete.

### [Command Format]

**ip igmp snooping mrouter vlan <1-4094> port <1-26>**

**[no] ip igmp snooping mrouter vlan <1-4094> port <1-26>**

### [Command Modes]

Global configuration mode; Privileged EXEC.

### [Executing Command Instruction]

Use this command to set the router port on designated VLAN, use **no ip igmp snooping mrouter** to delete router port. use this command to set the router port manually, so igmp packet can be transferred to this port.

### [Explanation of command execution echo]

*Set multicast router port successfully*

*Set multicast router port unsuccessfully*

*Set multicast router port successfully*

*Set multicast router port unsuccessfully*

### [Example]

Set the IGMP Snooping router port on VLAN 1 manually:

ISCOM2826(config)# **ip igmp snooping mrouter vlan 1 port 2**

Erase the IGMP Snooping router port on VLAN 1 manually:

ISCOM2826(config)#**no ip igmp snooping mrouter vlan 1 port 2**

### [Related commands]

Commands	Description
<b>show ip igmp snooping mrouter</b>	Show IGMP Snooping mrouter information
<b>show ip igmp snooping vlan mrouter</b>	Show VLAN IGMP Snooping mrouter config information

## 1.5 ip igmp snooping timeout

### [Function]

Use this command to configure time of IGMP snooping timeout. Use **no ip igmp-snooping timeout** to recover default configuration.

**[Command Format]**

**ip igmp-snooping timeout** *timeout*

**[no] ip igmp-snooping timeout**

**[Parameter]**

*timeout*: time of IP IGMP Snooping timeout, integer number range from 30 to 3600(second).

**[Default]**

Default value of timeout is 300 seconds.

**[Command Modes]**

Global configuration mode and Privileged EXEC

**[Executing Command Instruction]**

This command configure valid time of multicast router in IGMP Snooping, multicast route is deleted when timer is overtime. Use **no ip igmp-snooping timeout** to recover default configuration.

**[Explanation of command execution echo]**

*set igmp snooping aging successfully*

*set igmp snooping aging unsuccessfully*

*set default igmp snooping aging successfully*

*set default igmp snooping aging unsuccessfully*

**[Example]**

Set time of IGMP snooping timeout is 3000 seconds:

Raisecom(config)# **ip igmp-snooping timeout 3000**

Set time of IGMP snooping timeout is default value:

Raisecom(config)# **no ip igmp-snooping timeout**

**[Related commands]**

Commands	Description
<b>show ip igmp snooping</b>	Show IGMP Snooping config information

## 1.6 ip igmp snooping vlan-list

**[Function]**

Use this command to start the IGMP snooping function on particular VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping function on particular VLAN.

**[Command Format]**

**ip igmp snooping vlan-list** *vlanlist*

**[no] ip igmp snooping vlan-list** *vlanlist*

**[Parameter]**

*vlanlist*: VLAN list, range from 1-4094, format is {1-4094}, Example 2-100,120. The longest parameter is 50 characters.

**[Default]**

When the IGMP Snooping has been started, all the VLAN will start IGMP Snooping function by default.

**[Command Modes]**

Global configuration mode; Privileged EXEC.

**[Executing Command Instruction]**

Use this command to start IGMP snooping on particular VLAN, use **no ip igmp snooping vlan** to stop IGMP Snooping function on particular VLAN. Use this command to start/stop the IGMP snooping on many VLAN.

**[Explanation of command execution echo]**

*Enable IGMP snooping on VLAN 1 —10 successfully*

*Enable IGMP snooping on VLAN 1 —10 unsuccessfully*

*Disable IGMP snooping on VLAN 1 —10 successfully*

*Disable IGMP snooping on VLAN 1 —10 unsuccessfully*

**[Example]**

Start the IGMP Snooping function on VLAN 1-10 and 12,15:

RAISECOM(config)# **ip igmp snooping vlan-list** *1-10,12,15*

Stop the IGMP Snooping function on VLAN 1-10 and 12:

RAISECOM(config-vlan)#**no ip igmp snooping vlan-list** *1-10,12*

**[Related commands]**

Commands	Description
<b>show ip igmp snooping</b>	Show IGMP Snooping config information
<b>show ip igmp snooping vlan</b>	Show VLAN IGMP Snooping config information

## 1.7 ip igmp snooping vlan-list vlanlist immediate-leave

**[Function]**

Use this command to start the IGMP snooping immediate leave function on particular VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping immediate leave function.

**[Command Format]**

**ip igmp snooping vlan-list *vlanlist* immediate-leave**

**[no] ip igmp snooping vlan-list *vlanlist* immediate-leave**

**[Parameter]**

*vlanlist*: VLAN list, range from 1-4094, the format is {1-4094}, Example 2-100,120. The longest parameter has 50 characters.

**[Default]**

Disable by default.

**[Command Modes]**

Global configuration mode; Privileged EXEC.

**[Command Format]**

Use this command to start IGMP snooping immediate leave function on designated VLAN, use **no ip igmp snooping vlan** to stop the IGMP snooping immediate leave function on designated VLAN. Use this command to start/stop IGMP snooping immediate leave function on VLAN.

**[Command execution echo]**

*Enable IGMP immediate-Leave processing on the VLAN 1 —10 successfully*

*Enable IGMP Immediate-Leave processing on the VLAN 1 —10 unsuccessfully*

*Disable IGMP Immediate-Leave processing on the VLAN 1 —10 successfully*

*Disable IGMP Immediate-Leave processing on the VLAN 1 —10 unsuccessfully*

**[Example]**

Start the IGMP snooping immediate leave function on VLAN 1-10 and 12, 15:

RAISECOM(config)# **ip igmp snooping vlan-list 1-10,12,15 immediate-Leave**

Stop the IGMP snooping immediate leave function on VLAN 1-10 and 12:

RAISECOM (config)#**no ip igmp snooping vlan-list 1-10,12 immediate-Leave**

**[Related commands]**

Commands	Description
<b>show ip igmp snooping</b>	Show IGMP Snooping config information
<b>show ip igmp snooping vlan</b>	Show VLAN IGMP Snooping config information

## 1.8 show ip igmp snooping

**[Function]**

Show the dynamic-learning or manual configuration information of multi-router port or IGMP

Snooping configuration information.

#### [Command Format]

**show ip igmp-snooping [mrouter] [vlan vlanid]**

#### [Parameter]

**mrouter**: Show the dynamic-learning or manual configuration information of multi-router port.

**vlanid**:VLAN ID range form 1 to 4094.

#### [Command Modes]

Privileged EXEC; privileged user

#### [Executing Command Instruction]

**show ip igmp snooping** show IGMP snooping state and particular VLAN state.

**show ip igmp snooping mrouter** show dynamic learning or manual configuration information of multi-cast router port.

**show ip igmp snooping vlan vlanid** show the state of particular VLAN.

**show ip igmp snooping mrouter vlan vlanid** show multicast router port information of designated VLAN.

If do not specify VLAN, show all the VLAN information.

#### [Example]

Show IGMP snooping configuration information:

Raisecom# **show ip igmp snooping**

*IGMP snooping: Enable*

*IGMP snooping aging time: 50s*

*IGMP snooping active vlan: 1*

*IGMP snooping immediate-leave active vlan: --*

Show all the multicast router information of all the VLAN:

Raisecom# **show ip igmp snooping mrouter**

<i>Ip Address</i>	<i>Port</i>	<i>VLAN</i>	<i>Age</i>	<i>Type</i>
-----				

Show IGMP snooping configuration information of VLAN 1:

Raisecom# **show ip igmp snooping vlan 1**

*IGMP snooping: Enable*

*IGMP snooping aging time: 50s*

*IGMP snooping on Vlan 1: Enable.*

*IGMP snooping immediate-leave on Vlan 1: Disable.*

Show IGMP snooping multicast router information of VLAN 1:

**Raisecom#show ip igmp snooping mrouter vlan 1**

*IGMP snooping: Enable*

*IGMP snooping aging time: 50s*

*IGMP snooping on Vlan 1: Enable.*

*IGMP snooping immediate-leave on Vlan 1: Disable.*



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